

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 August 2000 (03.08.2000)

PCT

(10) International Publication Number
WO 00/44410 A3

(51) International Patent Classification⁷: A61K 48/00,
39/00, 39/39

(21) International Application Number: PCT/NL00/00058

(22) International Filing Date: 28 January 2000 (28.01.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
99200256.8 28 January 1999 (28.01.1999) EP

(71) Applicant (for all designated States except US): STICHT-
ING BIOMEDICAL PRIMATE RESEARCH CEN-
TRE [NL/NL]; Lange Kleiweg 151, NL-2288 GJ Rijswijk
(NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): HEENEY, Jonathan,
Luke [CA/NL]; Vrijburgstraat 25, NL-2275 BX Voorburg
(NL).

(74) Agent: OTTEVANGERS, S., U.; Vereenigde, Nieuwe
Parklaan 97, NL-2587 BN The Hague (NL).

(81) Designated States (national): AE, AL, AM, AT, AU, AZ,
BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK,
DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent
(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent
(AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,
MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

(88) Date of publication of the international search report:
7 December 2000

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: COMPOSITION AND METHOD FOR OBTAINING SPECIFIC IMMUNISATION AGAINST ONE OR MORE ANTI-
GENS USING DIFFERENT RECOMBINANT VECTORS

(57) Abstract: A large number of recombinant of viral and bacterial systems has been engineered as vectors to express foreign genes for vaccination and/or gene therapy. A common problem is the immune response to the vector itself. The presence of anti-vector immune responses may preclude sufficient priming or delivery if pre-existing immune responses are present, or impair optimal "boosting" upon subsequent immunisation or delivery. The invention provides means and methods for vaccinating an animal or a human to obtain therein an immune response against at least one antigen, comprising different vaccine compositions for sequential administration to said animal or said human, each containing at least said antigen or a precursor thereof, wherein said vaccine compositions differ from each other by the presence therein of a different vector.

206070" 64E06860

WO 00/44410 A3